

SEQUENCE LISTING

<110> Ingvar M. Ferby et al.
 <120> PROTEIN WITH CELL PROLIFERATION AND CELL DIVISION MODULATING ACTIVITY AND
 DNA ENCODING SUCH PROTEIN
 <130> 100564-00064
 <140> 09/889,592
 <141> 2001-08-02
 <150> PCT/EP00/00377
 <151> 2000-02-03
 <150> EP 99102172.6
 <151> 1999-02-03
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 <170> Patent-In version 3.1
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 ttatcgcaca ttgggcagc ggtggctaag cgcctgaagg tggctgcttc ctttgcacag 180
 atcaacccctc gggcgggtgt cccctttctt aca atg agg cac atg cag agt gta 234
 Met Arg His Met Gln Ser Val
 1 5
 acc cgg gcc agc tcc att tgt ggc agc ggg gtg aag cag gtc att ggc 282
 Thr Arg Ala Ser Ser Ile Cys Gly Ser Gly Val Lys Gln Val Ile Gly
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 aag ggg cat cgg cac gcc cgg gtt gtc gga gag cgc aag gag cca att 330
 Lys Gly His Val Val Ala Arg Val Val Gly Ala Arg Lys Ala Gln Ile
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 ccc gag aga gag gag ttg tca gtc aaa ccc aaa atg gtg cga aat acc 378
 Pro Glu Arg Glu Glu Leu Ser Val Lys Pro Lys Met Val Arg Asn Thr
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 cat ctg aat cta cag ccc cag gag cgc cag gcc ttc tac agg ctg cta 426

His Leu Asn Leu Gln Pro Gln Glu Arg Gln Ala Phe Tyr Arg Leu Leu
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gaa aat gag cag att cag gaa ttc ctt tct atg gac tcc tgt cta agg 474
Glu Asn Glu Gln Ile Gln Glu Phe Leu Ser Met Asp Ser Cys Leu Arg
75 80 85

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Ile Ser Asp Lys Tyr Leu Ile Ala Met Val Leu Ala Tyr Phe Lys Arg
90 95 100

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Ala Ala Gly Leu Tyr Thr Ser Glu Tyr Thr Thr Met Asn Phe Phe Val
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gcc ctg tat ctg gct aat gac atg gag gaa gat gaa gaa gac tat aaa 618
Ala Leu Tyr Leu Ala Asn Asp Met Glu Glu Asp Glu Glu Asp Tyr Lys
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tat gaa atc ttc ccc tgg gca cta gga gac tgg tgg cgt gag ctt ttc 666
Tyr Glu Ile Phe Pro Trp Ala Leu Gly Asp Ser Trp Arg Glu Leu Phe
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cca caa ttt ttg cgt ctc cgg gac gac ttc tgg gct aaa atg aac tac 714
Pro Gln Phe Leu Arg Leu Arg Asp Asp Phe Trp Ala Lys Met Asn Tyr
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cga gaa gta gtt tgt cga aac tcc tat gat cag gta atc tcc aaa gat 762
Arg Ala Val Val Ser Arg Arg Cys Cys Asp Glu Val Met Ser Lys Asp
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ccc act cat tgg gcc tgg ctg aga gat cgc ccc atg cat cac agc ggg 810
Pro Thr His Trp Ala Trp Leu Arg Asp Arg Pro Met His His Ser Gly
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Ala Met Arg Gly Tyr Leu Arg Asn Glu Asp Asp Phe Phe Pro Arg Gly
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Pro Gly Leu Thr Pro Ala Ser Cys Thr Leu Cys His Lys Ala Gly Val
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Cys Asp Ser Gly Gly Val Ser His Asn Asn Ser Ser Ser Pro Glu Gln
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265 270 275

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Gln Trp His His Leu				
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ta				1575

Thr Thr Met Asn Phe Phe Val Ala Leu Tyr Leu Ala Asn Asp Met Glu
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Glu Asp Glu Glu Asp Tyr Lys Tyr Glu Ile Phe Pro Trp Ala Leu Gly
 130 135 140

Asp Ser Trp Arg Glu Leu Phe Pro Gln Phe Leu Arg Leu Arg Asp Asp
 145 150 155 160

Phe Trp Ala Lys Met Asn Tyr Arg Ala Val Val Ser Arg Arg Cys Cys
 165 170 175

Asp Glu Val Met Ser Lys Asp Pro Thr His Trp Ala Trp Leu Arg Asp
 180 185 190

Arg Pro Met His His Ser Gly Ala Met Arg Gly Tyr Leu Arg Asn Glu
 195 200 205

Asp Asp Phe Phe Pro Arg Gly Pro Gly Leu Thr Pro Ala Ser Cys Thr
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Leu Cys His Lys Ala Gly Val Cys Asp Ser Gly Gly Val Ser His Asn
 225 230 235 240

Asn Ser Ser Ser Pro Glu Gln Glu Ile Phe His Tyr Thr Asn Arg Glu
 245 250 255

Trp Ser Gln Glu Leu Leu Met Leu Pro Pro Glu Leu Leu Leu Asp Pro
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Met Arg His Met
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Gln Ser Ala Thr Arg Ala Thr Leu Val Cys Gly Ser Gly Val Lys Gln
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Ile Ile Ala Lys Gly His Pro Asn Thr Arg Val Phe Gly Ala Arg Lys
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ggc aaa atc cct gag aga gag gtg cta gca gcc aaa ccc aag atc acg 318
Ala Lys Ile Pro Glu Arg Glu Val Leu Ala Ala Lys Pro Lys Ile Thr
40 45 50

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Arg Ile Thr His Leu Asn Leu Gln Pro Gln Glu Arg Gln Ala Phe Tyr
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Arg Leu Leu Glu Asn Glu Leu Ile Gln Glu Phe Leu Ser Met Asp Ser
70 75 80

tgt cta aag att tca gac aag tat ctc ata gca atg gtt cta gca tat 462
Cys Leu Lys Ile Ser Asp Lys Tyr Leu Ile Ala Met Val Leu Ala Tyr
85 90 95 100

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Phe Lys Arg Ala Gly Leu Tyr Thr Ser Glu Tyr Thr Thr Met Asn Phe
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Phe Val Ala Leu Tyr Leu Ala Asn Asp Met Glu Glu Asp Glu Glu Asp
120 125 130

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Tyr Lys Tyr Glu Ile Phe Pro Trp Ala Leu Gly Asp Ser Trp Arg Glu
135 140 145

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Phe Phe Pro Gln Phe Leu Arg Leu Arg Asp Asp Phe Trp Ala Lys Met
150 155 160

nac tac cga gca gtt gtt agc cga aga tgt tgt gat gag gta atg gcg 702
Asn Tyr Arg Ala Val Val Ser Arg Arg Cys Cys Asp Glu Val Met Ala
165 170 175 180

aaa gat ccc act cat tgg gcc tgg ctc aga gat cgt cct att cat cat 750
 Lys Asp Pro Thr His Trp Ala Trp Leu Arg Asp Arg Pro Ile His His
 185 190 195

agt ggg ggc ctg cgt ggt tac ctc aga aat gag gat gac ttt ttc cct 793
 Ser Gly Ala Leu Arg Gly Tyr Leu Arg Asn Glu Asp Asp Phe Phe Pro
 200 205 210

cgg ggt cca ggc ctt aca cca gcc agc tgt gca ctt tgc cat aaa gca 845
 Arg Gly Pro Gly Leu Thr Pro Ala Ser Cys Ala Leu Cys His Lys Ala
 215 220 225

agt gtc tgt gac tct ggt ggg gtg tcc cat gac aac tct tct cca gaa 894
 Ser Val Cys Asp Ser Gly Gly Val Ser His Asp Asn Ser Ser Pro Glu
 230 235 240

caa gag att ttt cac tac acc aat agg gag tgg tcc cag gaa ctt ctc 942
 Gln Glu Ile Phe His Tyr Thr Asn Arg Glu Trp Ser Gln Glu Leu Leu
 245 250 255 260

atc ttg cca cct gaa ctg tta ttg gat ccc gag tct act tat gac atc 990
 Ile Leu Pro Pro Glu Leu Leu Leu Asp Pro Glu Ser Thr Tyr Asp Ile
 265 270 275

cac att ttc cag gaa ccc ttg gtt gga tta gag cca gat ggg gca gcc 1038
 His Ile Phe Gln Glu Pro Leu Val Gly Leu Glu Pro Asp Gly Ala Ala
 280 285 290

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 Leu Glu Trp His His Leu
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35 40 45

Pro Lys Ile Thr Arg Ile Thr His Leu Asn Leu Gln Pro Gln Glu Arg
50 55 60

Gln Ala Phe Tyr Arg Leu Leu Glu Asn Glu Leu Ile Gln Glu Phe Leu
65 70 75 80

Ser Met Asp Ser Cys Leu Lys Ile Ser Asp Lys Tyr Leu Ile Ala Met
85 90 95

Val Leu Ala Tyr Phe Lys Arg Ala Gly Leu Tyr Thr Ser Glu Tyr Thr
100 105 110

Thr Met Asn Phe Phe Val Ala Leu Tyr Leu Ala Asn Asp Met Glu Glu
115 120 125

Asp Glu Glu Asp Tyr Lys Tyr Glu Ile Phe Pro Trp Ala Leu Gly Asp
130 135 140

Ser Trp Arg Glu Phe Phe Pro Gln Phe Leu Arg Leu Arg Asp Asp Thr
145 150 155 160

Trp Ala Lys Met Asn Tyr Arg Ala Val Val Ser Arg Arg Cys Cys Asp
165 170 175

Glu Val Met Ala Lys Asp Pro Thr His Trp Ala Trp Leu Arg Asp Arg
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Pro Ile His His Ser Gly Ala Leu Arg Gly Tyr Leu Arg Asn Glu Asp
195 200 205

Asp Phe Phe Pro Arg Gly Pro Gly Leu Thr Pro Ala Ser Cys Ala Leu
210 215 220

Cys His Lys Ala Ser Val Cys Asp Ser Gly Gly Val Ser His Asp Asp
225 230 235 240

Ser Ser Pro Glu Gln Glu Ile Phe His Tyr Thr Asn Arg Glu Trp Ser
245 250 255

Gln Glu Leu Leu Ile Leu Pro Pro Glu Leu Leu Leu Asp Pro Glu Ser

260

265

270

Thr Tyr Asp Ile His Ile Phe Gln Glu Pro Leu Val Gly Leu Glu Pro
275 280 285

Asp Gly Ala Ala Leu Glu Trp His His Leu
290 295